



Attorney's Docket No.: 16601-026001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ohta, et al. Art Unit : 1646
Serial No. : 10/630,967 Examiner : Unknown
Filed : July 31, 2003
Title : METHOD OF ENHANCING NEURAL STEM CELL PROLIFERATION,
DIFFERENTIATION, AND SURVIVAL USING PITUITARY ADENYLATE
CYCLASE ACTIVATING POLYPEPTIDE (PACAP)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

1. WO 03/018782, published March 6, 2003
2. Hirose, M. et al., "Gene expression of PACAP and its receptors in the ES cell-derived neuronal stem cells." Japanese Journal of Pharmacology, The Japanese Pharmacological Society, Kyoto, JP, vol. 88, no. suppl. 1, p. 143.
3. Lelievre, V. et al., "Fibroblast growth factor-2 converts PACAP growth action on embryonic hindbrain precursors from stimulation to inhibition." Journal of Neuroscience Research, Vol 67, No. 5, March 1, 2002, pp. 566-573.
4. Lelievre, V. et al., "Cross-talk between PACAP and sonic hedgehog (SHH) pathways in neural stem cells, cerebellar granular progenitor cells and oligodendrocyte progenitors to control cell fate and proliferation." Regulatory Peptides, Vol. 115, no. 1, 2003, p. 50.
5. Lelievre, V. et al., "Interactive of PACAP with sonic Hedgehog on neural stem cell and oligodendrocyte progenitor proliferation." Journal of Neurochemistry, Vol. 85, no. Supplement 1, May 20, 2003, p. 66.

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV321385865US

December 12, 2003

Date of Deposit

6. Ohta et al., "Pituitary adenylate cyclase-activating polypeptide (PACAP) regulates forebrain neural stem cell fate in vitro and in vivo." Society for Neuroscience Abstract Viewer and Itinerary Planner, Vol. 2002, page abstract no. 329.13, 2002.

7. Pesce, Mauricio et al., "Pituitary adenylate cyclase-activating polypeptide (PACAP) stimulates adenylate cyclase and promotes proliferation of mouse primordial germ cells." Development (Cambridge), Vol. 122, No. 1, 1996, pp. 215-221.

8. Rostene, W. et al., "VIP and PAGAP via G-Protein coupled receptors are potent inducers of mouse embryonic stem cell neuronal differentiation." Regulatory Peptides, Vol. 115, No. 1, 2003, p. 55.

9. Vaudry, David et al., "Neurotrophic activity of pituitary adenylate cyclase-activating polypeptide on rat cerebellar cortex during development." Proceeding of the National Academy of Sciences of the United States, vol. 96, no. 16, August 3, 1999, pp. 9415-9420.

These documents are being submitted before a first Office Action on the merits, therefore no fee is required under 37 C.F.R. § 1.97(b). In the event an Office Action is mailed by the United States Patent and Trademark Office prior to receipt of this Information Disclosure Statement, Applicants hereby make the statement specified in 37 C.F.R. §1.97(e) that each document contained herein was first cited in the International Search Report for the corresponding PCT application (PCT/CA03/01182) within 3 months of the filing date of this Information Disclosure Statement. Therefore, no fee is required under 37 C.F.R. § 1.97(c). A copy of this International Search Report is also enclosed herewith.

For the purpose of patent term adjustment, Applicants also wish to point out that this Supplemental Information Disclosure Statement is being filed within 30 days of receipt of the aforementioned International Search Report by Applicants or Applicants' representatives.

By citing the above references, Applicants do not acquiesce or admit that any of these documents is "prior art" under 35 U.S.C. Applicants specifically reserve the right, where appropriate, to antedate any of the cited documents by an appropriate showing under 37 C.F.R. §1.131, §1.604, §1.608 or any other suitable means.

Applicant : Ohta, et al.
Serial No. : 10/630,967
Filed : July 31, 2003
Page : 3 of 3

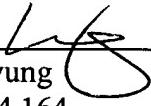


Attorney's Docket No.: 16601-026001

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

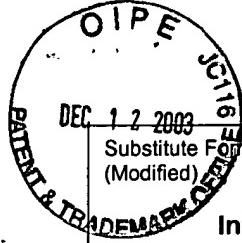
Respectfully submitted,

Date: Dec. 12, 2003


Ping F. Hwung
Reg. No. 44,164

Fish & Richardson P.C.
500 Arguello Street, Suite 500
Redwood City, California 94063
Telephone: (650) 839-5070
Facsimile: (650) 839-5071

50188926.doc



| | | | | | |
|--|--|--|------------------------|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449 (Modified) | | U.S. Department of Commerce Patent and Trademark Office | | Attorney's Docket No. 16601-026001 | Application No. 10/630,967 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Ohta, et al. | | | |
| | | Filing Date July 31, 2003 | Group Art Unit 1646 | | |

U.S. Patent Documents

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| | AA | | | | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|--|
| | AB | WO 03/018782 | March 6, 2003 | WIPO | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|---|
| | AC | Hirose, M. et al., "Gene expression of PACAP and its receptors in the ES cell-derived neuronal stem cells." Japanese Journal of Pharmacology, The Japanese Pharmacological Society, Kyoto, JP, vol. 88, no. suppl. 1, p. 143. |
| | AD | Lelievre, V. et al., "Fibroblast growth factor-2 converts PACAP growth action on embryonic hindbrain precursors from stimulation to inhibition." Journal of Neuroscience Research, Vol 67, No. 5, March 1, 2002, pp. 566-573. |
| | AE | Lelievre, V. et al., "Cross-talk between PACAP and sonic hedgehog (SHH) pathways in neural stem cells, cerebellar granular progenitor cells and oligodendrocyte progenitors to control cell fate and proliferation." Regulatory Peptides, Vol. 115, no. 1, 2003, p. 50. |
| | AF | Lelievre, V. et al., "Interactive of PACAP with sonic Hedgehog on neural stem cell and oligodendrocyte progenitor proliferation." Journal of Neurochemistry, Vol. 85, no. Supplement 1, May 20, 2003, p. 66. |
| | AG | Ohta et al., "Pituitary adenylate cyclase-activating polypeptide (PACAP) regulates forebrain neural stem cell fate in vitro and in vivo." Society for Neuroscience Abstract Viewer and Itinerary Planner, Vol. 2002, page abstract no. 329.13, 2002. |
| | AH | Pesce, Mauricio et al., "Pituitary adenylate cyclase-activating polypeptide (PACAP) stimulates adenylate cyclase and promotes proliferation of mouse primordial germ cells." Development (Cambridge), Vol. 122, No. 1, 1996, pp. 215-221. |
| | AI | Rostene, W. et al., "VIP and PAGAP via G-Protein coupled receptors are potent inducers of mouse embryonic stem cell neuronal differentiation." Regulatory Peptides, Vol. 115, No. 1, 2003, p. 55. |
| | AJ | Vaudry, David et al., "Neurotrophic activity of pituitary adenylate cyclase-activating polypeptide on rat cerebellar cortex during development." Proceeding of the National Academy of Sciences of the United States, vol. 96, no. 16, August 3, 1999, pp. 9415-9420. |
| | AK | |
| | AL | |
| | AM | |
| | AN | |

| | |
|--|-----------------|
| Examiner Signature | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |